

Notice of Allowability

Application No.

09/819,707

Examiner

Mujtaba K. Chaudry

Applicant(s)

GRIMSRUD, KNUT S.

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2133

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 03/15/2005.
2. ☒ The allowed claim(s) is/are 6-21.
3. ☒ The drawings filed on 23 May 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


ALBERT DECADY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

REASONS FOR ALLOWANCE

Claims 6-21 are allowed. Claims 1-5 were withdrawn and need to be cancelled. The following is an Examiner's statement of reasons for allowance:

Independent claim 6 of the present application teaches a method for transmitting and receiving a packet of information, comprising: generating a table having a plurality of associated operation codes, scrambler syndrome values, scrambled values and encoded code words, wherein the plurality of encoded code words have been selected based upon a predetermined criteria and each code word has a maximum hamming distance between all other enclosed code words; resetting a scrambler generator using a scrambler seed value at the beginning of transmission; scrambling a plurality of data values by XORing the plurality of data values with a value from the scrambler syndrome generator to form a plurality of scrambled values; encoding the plurality of scrambled values to a plurality of encoded scrambled values having greater number of bits; transmitting an encoded code word representing an operation code to a receiving device; decoding and descrambling the encoded code word to create a code word; comparing the code word against the table having a plurality of associated operation codes, scrambler syndrome values, scrambled values and encoded code words by the receiving device; and acting upon the received opcode immediately after decoding to properly process the rest of the incoming data.

The foregoing limitations are not found in the prior arts of record. The prior art of record, namely Peterson et al. (herein after : Peterson), teaches (abstract) on-the-fly error correction method and apparatus for correcting a data block within a stream of substantially contiguous data blocks during a data decoding process, each block having a Reed-Solomon error syndrome calculated and appended during an encoding process. The method comprises the steps of: passing the block

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through a syndrome remainder recovery circuit to obtain a remainder related to the error syndrome, comparing the remainder with zero to determine if an error burst is present, and if an error burst is present: latching the remainder into a remainder latch in order to free the syndrome information recovery circuit for the next data block of the stream, causing a multitasked microcontroller to call and execute an error correction service routine and thereupon selectively transferring the remainder from the remainder latch to the microcontroller, determining with the microcontroller the location and a corrected value for the error burst in accordance with a Reed Solomon error correction algorithm, and substituting the corrected value for the error burst within the block detected to contain the error burst before it is delivered to a host system. Cross checking the correction, and error detection of data block ID fields is also disclosed. However, Peterson, or any other prior art of record, does not teach or fairly suggest, generating a table having a plurality of associated operation codes, scrambler syndrome values, scrambled values and encoded code words, wherein the plurality of encoded code words have been selected based upon a predetermined criteria and each code word has a maximum hamming distance between all other enclosed code words. Therefore, none of the prior arts of record teach or fairly suggest all the limitations in the independent claim 1 of the present application neither would have been obvious to one of ordinary skill in the art to modify Peterson to such.

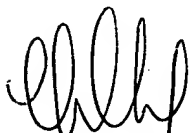
Independent claims 13 and 20 include similar limitations of independent claim 1 and therefore are allowed for similar reasons.

Dependent claims 7-12, 14-19 and 21 depend from independent claims 6, 13 and 20 and inherently include limitations therein and therefore are allowed as well.

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Any inquiries concerning this communication should be directed to the examiner, Mujtaba Chaudry who may be reached at 571-272-3817. The examiner may normally be reached Mon – Thur 6:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, please contact the examiner's supervisor, Albert DeCady at 571-272-3819.



Mujtaba Chaudry
Art Unit 2133
May 9, 2005



ALBERT DECADY
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